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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/019,931

DATE: 07/16/2002

TIME: 13:48:35

Input Set : A:\Robic 11.app

Output Set: N:\CRF3\07162002\J019931.raw

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3 <110> APPLICANT: Varin, Luc
4   Gidda, Satinda
6 <120> TITLE OF INVENTION: Methods, compositions and genetic sequences for
7   modulating flowering in plants, and plants genetically
8   modified to flower early and tardily.
10 <130> FILE REFERENCE: ROBIC 214187
12 <140> CURRENT APPLICATION NUMBER: 10/019,931
13 <141> CURRENT FILING DATE: 2000-07-06
15 <150> PRIOR APPLICATION NUMBER: PCT WO 01/02589 A2
16 <151> PRIOR FILING DATE: 2000-07-06
18 <160> NUMBER OF SEQ ID NOS: 4
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1077
24 <212> TYPE: DNA
25 <213> ORGANISM: Arabidopsis thaliana
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30 gggctaagct gcgagttcca agagatgttg gattctcttc ctaaggagag aggatggaga 180
31 actcgttacc ttacctatt ccaaggggtt tgggtgccaag ccaaagagat tcaagccatc 240
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33 aaatccggtg caacctggct aaaagcttta actttcacca tccttaaccg tcaccggttt 360
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35 cctttcttcg agtacaagct ttacgccaac ggagatgttc ccgatctctc ggggtctagcc 480
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37 cccggtgtga aggtcggtga cttgtgcccg aaccggtttg acacattcat ctcttcgtgg 600
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39 gatctgtatt gccggggagt gatcgggttt ggcccgtttt gggaacacat gttgggatac 720
40 tggagagaga gcttgaagag accagagaaa gtcttctttt taaggtagca ggatctcaaa 780
41 gacgacatcg agaccaactt gaagaggctt gcaactttct tagagcttcc tttcaccgaa 840
42 gaagaggaac gaaagggagt tgtgaaggct atcgccgagc tgtgtagctt cgagaatctg 900
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56 aaggagagag gacggagaaa tcgttacctt tacttattcc aagggtttcg gtgccaagct 180

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59 cttaccgcgc atcggtttga tccggtttcc tcatcaagtt ccgaccaccc tcttctcaca 360
60 tccaaccctc acgacctcgt acctttcttc gagtacaagc tttagcctaa cggaaatgtt 420
61 cccgatctct cgggtctagc cagtccaaga acattcgcaa cccacgtacc gttcgggtgc 480
62 cttaaggatt cggtcgagaa tcccagtggt aaggttggtg acctgtgccg gaacccgttt 540
63 gacacattca tctccatgtg gcattacatc aacaacatca cttccgagtc agtgagcgca 600
64 gtcttgctag acgaagcttt tgatctatat tgccggggat tactgatcgg atttggcccg 660
65 ttttggaac acatgttggg atactggaga gagagcttga agaggccaga gaaagtctta 720
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69 cagaactatg agaaccggtt cttgttttagg aaaggagaag tgagtgtatt ggttaactat 960
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75 <211> LENGTH: 359
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86 Val Pro Lys Ala Glu Glu Asp Glu Gly Leu Ser Cys Glu Phe Gln Glu
87           35           40           45
89 Met Leu Asp Ser Leu Pro Lys Glu Arg Gly Trp Arg Thr Arg Tyr Leu
90           50           55           60
92 Tyr Leu Phe Gln Gly Phe Trp Cys Gln Ala Lys Glu Ile Gln Ala Ile
93           65           70           75           80
95 Met Ser Phe Gln Lys His Phe Gln Ser Leu Glu Asn Asp Val Val Leu
96           85           90           95
98 Ala Thr Ile Pro Lys Ser Gly Thr Thr Trp Leu Lys Ala Leu Thr Phe
99           100          105          110
101 Thr Ile Leu Asn Arg His Arg Phe Asp Pro Val Ala Ser Ser Thr Asn
102           115          120          125
104 His Pro Leu Phe Thr Ser Asn Pro His Asp Leu Val Pro Phe Phe Glu
105           130          135          140
107 Tyr Lys Leu Tyr Ala Asn Gly Asp Val Pro Asp Leu Ser Gly Leu Ala
108           145          150          155          160
110 Ser Pro Arg Thr Phe Ala Thr His Leu Pro Phe Gly Ser Leu Lys Glu
111           165          170          175
113 Thr Ile Glu Lys Pro Gly Val Lys Val Val Tyr Leu Cys Arg Asn Pro
114           180          185          190
116 Phe Asp Thr Phe Ile Ser Ser Trp His Tyr Thr Asn Asn Ile Lys Ser
117           195          200          205
119 Glu Ser Val Ser Pro Val Leu Leu Asp Gln Ala Phe Asp Leu Tyr Cys
120           210          215          220
122 Arg Gly Val Ile Gly Phe Gly Pro Phe Trp Glu His Met Leu Gly Tyr

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125 Trp Arg Glu Ser Leu Lys Arg Pro Glu Lys Val Phe Phe Leu Arg Tyr
126          245          250          255
128 Glu Asp Leu Lys Asp Asp Ile Glu Thr Asn Leu Lys Arg Leu Ala Thr
129          260          265          270
131 Phe Leu Glu Leu Pro Phe Thr Glu Glu Glu Glu Arg Lys Gly Val Val
132          275          280          285
134 Lys Ala Ile Ala Glu Leu Cys Ser Phe Glu Asn Leu Lys Lys Leu Glu
135          290          295          300
137 Val Asn Lys Ser Asn Lys Ser Ile Lys Asn Phe Glu Asn Arg Phe Leu
138 305          310          315          320
140 Phe Arg Lys Gly Glu Val Ser Asp Trp Val Asn Tyr Leu Ser Pro Ser
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143 Gln Val Glu Arg Leu Ser Ala Leu Val Asp Asp Lys Leu Gly Gly Ser
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147          355
150 <210> SEQ ID NO: 4
151 <211> LENGTH: 347
152 <212> TYPE: PRT
153 <213> ORGANISM: Arabidopsis thaliana
155 <400> SEQUENCE: 4
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162 Gln Glu Met Leu Asp Ser Leu Pro Lys Glu Arg Gly Arg Arg Asn Arg
163          35          40          45
165 Tyr Leu Tyr Leu Phe Gln Gly Phe Arg Cys Gln Ala Lys Glu Ile Gln
166          50          55          60
168 Ala Ile Thr Ser Phe Gln Lys His Phe Gln Ser Leu Pro Asp Asp Val
169 65          70          75          80
171 Val Leu Ala Thr Ile Pro Lys Ser Gly Thr Thr Trp Leu Lys Ala Leu
172          85          90          95
174 Thr Phe Thr Ile Leu Thr Arg His Arg Phe Asp Pro Val Ser Ser Ser
175          100          105          110
177 Ser Ser Asp His Pro Leu Leu Thr Ser Asn Pro His Asp Leu Val Pro
178          115          120          125
180 Phe Phe Glu Tyr Lys Leu Tyr Ala Asn Gly Asn Val Pro Asp Leu Ser
181          130          135          140
183 Gly Leu Ala Ser Pro Arg Thr Phe Ala Thr His Val Pro Phe Gly Ala
184 145          150          155          160
186 Leu Lys Asp Ser Val Glu Asn Pro Ser Val Lys Val Val Tyr Leu Cys
187          165          170          175
189 Arg Asn Pro Phe Asp Thr Phe Ile Ser Met Trp His Tyr Ile Asn Asn
190          180          185          190
192 Ile Thr Ser Glu Ser Val Ser Ala Val Leu Leu Asp Glu Ala Phe Asp
193          195          200          205
195 Leu Tyr Cys Arg Gly Leu Leu Ile Gly Phe Gly Pro Phe Trp Glu His

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196      210      215      220
198 Met Leu Gly Tyr Trp Arg Glu Ser Leu Lys Arg Pro Glu Lys Val Leu
199 225      230      235      240
201 Phe Leu Lys Tyr Glu Asp Leu Lys Glu Asp Ile Glu Thr Asn Leu Lys
202      245      250      255
204 Lys Leu Ala Ser Phe Leu Gly Leu Pro Phe Thr Glu Glu Glu Gln
205      260      265      270
207 Lys Gly Val Val Lys Ala Ile Ala Asp Leu Cys Ser Phe Glu Asn Leu
208      275      280      285
210 Lys Lys Leu Glu Val Asn Lys Ser Ser Lys Leu Ile Gln Asn Tyr Glu
211      290      295      300
213 Asn Arg Phe Leu Phe Arg Lys Gly Glu Val Ser Asp Leu Val Asn Tyr
214 305      310      315      320
216 Leu Ser Pro Ser Gln Val Glu Arg Leu Ser Ala Leu Val Asp Asp Lys
217      325      330      335
219 Leu Ala Gly Ser Gly Leu Thr Phe Arg Leu Ser
220      340      345

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VERIFICATION SUMMARY

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